

In the Specification

Please amend the specification as follows.

Please amend the paragraphs beginning at page 3, line 19, as follows:

The invention in another aspect provides an isolated nucleic acid molecule selected from the group consisting of (a) a unique fragment of a nucleic acid molecule selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:29, and SEQ ID NO:31, (b) complements of (a), provided that the unique fragment includes a sequence of contiguous nucleotides which is not identical to any sequence selected from a sequence group consisting of (1) sequences having the ~~SEQ. ID NOS.~~ SEQ ID NOs or GenBank accession numbers of Table I, (2) complements of (1), and (3) fragments of (1) and (2).

According to yet another aspect of the invention, isolated SOC/CRAC polypeptides are provided. The isolated SOC/CRAC polypeptide molecules are encoded by one or more SOC/CRAC nucleic acid molecules of the invention. Preferably, the SOC/CRAC polypeptide contains one or more polypeptides selected from the group consisting of the polypeptides having ~~SEQ. ID Nos.~~ SEQ ID NOs 2, 4, 6, 8, 24, 26, 28, 30, and 32. In other embodiments, the isolated polypeptide may be a fragment or variant of the foregoing SOC/CRAC polypeptide molecules of sufficient length to represent a sequence unique within the human genome, and identifying with a polypeptide that functions as a calcium channel, provided that the fragment excludes a sequence of contiguous amino acids identified in Table II, and/or excludes a sequence of contiguous amino acids encoded for by a nucleic acid sequence identified in Table I. In another embodiment, immunogenic fragments of the polypeptide molecules described above are provided.

Please amend the paragraph beginning at page 5, line 3, as follows:

In certain embodiments, the SOC/CRAC nucleic acid is a SOC-2/CRAC-1 nucleic acid (e.g., a nucleic acid having ~~SEQ. ID NO.~~ SEQ ID NO:27, or complements thereof); in certain other embodiments, the SOC/CRAC nucleic acid is a SOC-3/CRAC-2 nucleic acid (e.g., a nucleic acid having ~~SEQ. ID NO.~~ SEQ ID NO:29, or complements thereof); in further embodiments, the SOC/CRAC nucleic acid is a SOC-4/CRAC-3 nucleic acid (e.g., a nucleic acid having ~~SEQ. ID NO.~~ SEQ ID NO:31, or complements thereof). In yet other embodiments, the SOC/CRAC polypeptide is a SOC-2/CRAC-1 binding polypeptide (e.g., an antibody that selectively binds to a SOC-2/CRAC-1 polypeptide). In yet further embodiments, the SOC/CRAC polypeptide is a SOC-3/CRAC-2 binding polypeptide (e.g., an antibody that selectively binds to a SOC-3/CRAC-2 polypeptide). In some embodiments, the SOC/CRAC polypeptide is a SOC-4/CRAC-3 binding polypeptide (e.g., an antibody that selectively binds to a SOC-4/CRAC-3 polypeptide). In the preferred embodiments, the isolated binding polypeptides include antibodies and fragments of antibodies (e.g., Fab, F(ab)₂, Fd and antibody fragments which include a CDR3 region which binds selectively to a SOC-2/CRAC-1, to a SOC-3/CRAC-2, and/or to a SOC-4/CRAC-3 polypeptide). Preferably the isolated binding polypeptides or other binding agents selectively bind to a single SOC/CRAC molecule, i.e., are capable of distinguishing between different members of the SOC/CRAC family. Accordingly, one or more SOC/CRAC binding agents can be contained in a single composition (e.g., a pharmaceutical composition) to identify multiple SOC/CRAC molecules *in vivo* or *in vitro*.

Please amend the paragraph beginning at page 11, line 6, as follows:

As used herein, a SOC/CRAC calcium channel nucleic acid (also referred to herein as a "SOC/CRAC nucleic acid" refers to a nucleic acid molecule which: (1) hybridizes under stringent conditions to one or more of the nucleic acids having the sequences of ~~SEQ. ID NOS.~~ SEQ ID NOS 7, 27, 29, and/or 31 (sequences of the mouse and human SOC-2/CRAC-1, human SOC-3/CRAC-2, and human SOC-4/CRAC-3 nucleic acids), and (2) codes for a SOC-2/CRAC-1, a SOC-3/CRAC-2 or a SOC-4/CRAC-3 calcium channel polypeptide, respectively, or unique fragments of said SOC-2/CRAC-1, SOC-3/CRAC-2, or SOC-4/CRAC-3 polypeptide.

Please amend the paragraph beginning at page 15, line 3, as follows:

In general homologs and alleles typically will share at least 40% nucleotide identity and/or at least 50% amino acid identity to SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:23, SEQ ID NO:25, SEQ ID NO:27, SEQ ID NO:29, and/or SEQ ID NO:31, and SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:24, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:30, and/or SEQ ID NO:32, respectively. In some instances sequences will share at least 50% nucleotide identity and/or at least 65% amino acid identity and in still other instances sequences will share at least 60% nucleotide identity and/or at least 75% amino acid identity. The homology can be calculated using various, publicly available software tools developed by NCBI (Bethesda, Maryland) that can be obtained through the internet (~~ftp://~~<http://www.ncbi.nlm.nih.gov/pub/>). Exemplary tools include the BLAST system available at <http://www.ncbi.nlm.nih.gov>. Pairwise and ClustalW alignments (BLOSUM30 matrix setting) as well as Kyte-Doolittle hydropathic analysis can be obtained using the ~~MacVector~~ MacVector sequence analysis software (Oxford Molecular Group). Watson-Crick complements of the foregoing nucleic acids also are embraced by the invention.